

VETLUGINA, L.A.; MOROZOVA, G.R.; BALITSKAYA, A.K.; RYSHKA, F.Yu.;
KHOKHLOV, A.S.

Separation of the antibiotic coelicomycin by gel filtration on
sephadex. Antibiotiki 9 no.9:778-783 S '64.

(MIRA 19:1)

1. Institut mikrobiologii i virusologii AN Kazakhskoy SSR i
Institut khimii prirodnikh soyedineniy AN SSSR, Moskva.

MOROZOVA, G.R.; VETLUGINA, L.A.; YEGOROV, TS. A.; BLINOV, N.O.;
KHOKHLOV, A.S.

Physicochemical properties of celicomyelin fractions. Trudy Inst.
mikrobiol. i virus. AN Kazakh. SSR. 8:111-116 '65.
(MIRA 18:11)

VETLUGINA, L.A.; SARTBAYEVA, U.A.; GOLOSKOKOVA, M.V.

Comparative study of coelicomycin and antibiotics of the
typical strains of Actinomyces coelicolor. Trudy Inst.
mikrobiol. i virus. AM Kazakh. SSR 7:110-115 '63
(MIRA 16:12)

VETLUGINA, L.A.; SARTBAYEVA, U.A.; MORCZOVA, G.R.

Isolation of actinorhodin from *Actinomyces coelicolor*, producer
of cellomycin. Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR.
8:101-110 '65. (MIRA 18:11)

VETLUGINA, L.A.

Studying the antibiotic 1321 by paper chromatography. Trudy Inst.
mikrobiol. i virus. AN Kazkah. SSR 6:83-89 '62. (MIRA 15:8)
(ANTIBIOTICS) (PAPER CHROMATOGRAPHY)

SHAMIS, D.L., otv. red.; VETLUGINA, L.A., red.; ILYALETDINOV,
A.N., red.; KARPOV, M.S., red.; SHIGAYEVA, M.Kh., red.;
ALEKSANDRIYSKIY, V.V., red.

[Transactions of the Conference on the Microbiology of
Feed Trudy Soveshchaniia po mikrobiologii kormov.
Alma-Ata, Izd-vo AN Kaz.SSR, 1961. 126 p.
(MIRA 17:11)

1. Soveshchaniye po mikrobiologii kormov, Alma-Ata, 1959.
2. Institut mikrobiologii i virusologii AN KazSSR (for
Karpov, Shamis).

BALITSKAYA, A.K.; VETLUGINA, L.A.; SARTBAYEVA, U.A.

Actinomyces 1321 and the antibiotic substance formed by it. Trudy
Inst. mikrobiol. i virus. AN Kazakh. SSR 4:3-13 '61. (MIRA 14:4)
(ACTINOMYCES) (ANTIBIOTICS)

BALITSKAYA, A.K.; VESTLUGINA, L.A.; SARTBAYEVA, U.A.

Antibiotic of the litnocidin type. Antibiotiki 7 no.2:99-103 F '62.
(MIRA 15:2)

1. Institut mikrobiologii i virusologii AN Kazakhskoy SSR, Alma-Ata.
(ANTIBIOTICS)

VETLUGINA, L.A.

Degree of purification and yield of tselkomycin in deep biosynthesis.
Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 4:27-29 '61,
(MIRA 14:4)

(ACTINOMYCIN)

BALITSKAYA, A.K.; VETLUGINA, L.A.; FEDORENKO, G.G.

Production of tselikomycin in an experimental installation; preliminary results. Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 4:19-25 '61.
(MIRA 14:4)

(ACTINOMYCIN)

VETLUGINA, L.A.; SHIGAYEVA, M.Kh.

Isolation and certain properties of the antibiotic substance
produced by *Actinomyces antioxyaneus* (strain 1016). Trudy Inst. mikrobiol.
i virus. AN Kazakh. SSR 3:46-54 '59. (MIRA 13:2)
(ANTIBIOTICS)

VETLUGINA, L.A.

Biochemical characteristics of actinomycin. Trudy Inst.mikrobiol. i
virus. AN Kazakh.SSR 1:30-39 '56. (MIRA 10:6)
(ACTINOMYCIN)

BALITSKAYA, A.K.; VETLUGINA, L.A.

Investigation of the pigmented part of the tsellikomycin. Report
No. 1. Trudy Inst. mikrobiol. i virus. AN Kazakh. SSR 5:3-7 '61.
(MIRA 15:4)

(Actinomycin)

VETLUGINA, L.G.

YUDIN, I.A.; VETLUGINA, L.G.

New additions to the Ural Geological Museum. Trudy Sver.gor.inst.
no.26:146-153 '56. (MIRA 10:3)
(Ural Mountains--Geological museums)

VETLUTSKY, V.N.; ZAMURAYEV, V.P.; KURBATSKY, A.M.; ONUFRIYEV, A.T. (Novosibirsk)

"On cooling of radiating grey gas flowing in a channel and past a plate"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964

ACC NR: AP5021906

44, 55
SOURCE CODE: UR/0207/65/000/004/0071/0078

AUTHOR: Vetlutskiy, V. N. (Novosibirsk); Onufriyev, A. T. (Novosibirsk); Sevast'ya-
nenko, V. G. (Novosibirsk)

ORG: none

TITLE: Calculation of an electrical wall-stabilized argon arc with consideration of radiative energy transfer

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1965, 71-78

TOPIC TAGS: argon, plasma arc, plasma radiation

ABSTRACT: The calculation of the argon arc parameters are presented with consideration of the radiation processes. The laminar arc with local thermodynamic equilibrium is considered to be stabilized by cooled walls. The electric field in the arc is taken to be constant along the axis and radially. The transport equation for the arc is solved by successive approximations. The degree of ionization is determined by Saha's equation with a lowered ionization potential. The electrical conductivity and heat conductivity consisting of the heavy component conductivity, electron conductivity and conductivity due to ionization are calculated. The behavior of the radiation is considered for several kinds of transitions with special attention given to resonance lines and transitions to the ground state. The calculated parameters for the

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L 8518-66

ACC NR: /P5021906

3
are are tabulated for the temperature range from 6000°K to 17,000°K at 1 and 10 atmosphere pressures. The radial distributions of the various components are also given. The results confirm the experimentally obtained values of other workers. "The authors are indebted to I. T. Yakubov for giving them data on argon plasma emission." Orig. art. has: 7 figures, 21 formulas, 3 tables.

SUB CODE: 20/

SUBM DATE: 05Apr65/

ORIG REF: 004/

OTH REF: 014

Card 2/2 (W)

"APPROVED FOR RELEASE: 09/01/2001

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859620017-2"

Card 1/2

L 4811-1
ACCESSION NP: APPROVED

Internal security of the United States is a matter of the utmost importance.

ASSOCIATION: none

SUBMITTED: 08Jul64

ENCL: 00

SUB CODE: GP, TD

NO REF SOV: 007

OTHER: 000

Card ^{✓✓} 2/2

VETLUTSKIY, V.N. (Novosibirsk); ONUFRIYEV, A.T. (Novosibirsk)

Cooling by radiation of a gas flowing in a plane channel. *PMIT*
no.6:29-34 N-D '62. (MIRA 16:6)
(Gas flow) (Heat—Radiation and absorption)

USSR/Diseases of Farm Animals. Diseases Caused by
Bacteria and Fungi.

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

Author : Gromov, V. P.; Zhukova, Ye. N., Vetluzhskikh, P.A

Inst : Sverdlovsk Institute of Agriculture

Title : The Effectiveness of Vaccine Therapy in Bovine
Brucellosis.

Orig Pub : Tr. Sverdlovsk. s.-kh. in-ta, 1957, 1, 321-326

Abstract : Formolvaccines and heat-killed vaccines were prepared from virulent strains of all three brucella types to be used in vaccine therapy. Mice and rabbits infected by brucella cultures were subjected to formolvaccine treatment. Bacteriological examinations of perished and killed mice and rabbits did not reveal brucella discharges. Apart from this, a sharply increased agglutination titer was detected in rabbits. Brucellosis afflicted cows were treated with intramuscular injections of formolvaccine

Card 1/3

USSR/Diseases of Farm Animals. Diseases Caused by
Bacteria and Fungi.

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

Abstract : and of heat-killed vaccine in the following manner;
2 billions of microbio organisms were used for the
first injection, 2 billions (3 days thereafter)
after again for the second injection, 5 billions
(5 days thereafter) for the third injection, 5
billions again for the fourth injection (20 days
thereafter), 7 billions for the fifth injection
(10 days thereafter), 7 billions again for the
sixth injection (14 days thereafter), and 10
billions for the seventh injection (20-25 days there-
after). After 1-2 days, a general rise of body temp-
erature was observed in the majority of the vaccina-
ted animals. Also, loss of appetite and a decrease
of milk yields were established, as well as swelling
of the injection site. Already after the first few

Card 2/2

USSR/Diseases of Farm Animals. Diseases Caused by
Bacteria and Fungi.

R-1

Abs Jour : Ref Zhur-Biol., No 18, 1958, 83515

Abstract : injections agglutinin titers rose and remained at a high level (1:800, 1:1600, 1:6400) for a long period of time. Eleven to 13 months after the treatment, a decrease to 1:50 and 1:25 followed or became even negative. The phagocytal index increased in the diseased animals during the vaccination period. Before treatment opsonophagocytal reactions were negative or slightly positive. A specific vaccine therapy carried out on 2 farms, prevented recurrences of abortions and resulted in a decrease of barrenness. Also, inflammatory processes of the animals' sex organs ceased.---
I. Ya. Panchenko

Card 3/3

VETLUZHSKI KH, P.A.

"Autumn Innoculations Against Malignant Anthrax and Their Effectiveness,"
P.A. VETLUZHSKI KH, Sverdlovsk Scientific Research Veterinary Experimental
Station, 1 p

An eight-year test of autumn inoculations against malignant anthrax
showed that it was just as effective as spring inoculations, caused no
complications, and reduced the infection and death of animals from malignant
anthrax in unfavorable locations. Only a small percentage of animals were
not inoculated because of pregnancy and other reasons. (LC; 33T31)
SO: Veterinariya; No. 9; Sept 1947) uncl deg

VETLUZHSKIKH, P. A.

"Anthrax and the fight against it".

Sverdlovsk. Sverdlgiz. 1952. 32 pages with illustrations.

SO: Vet., Aug. 1952, Unclassified.

VELTUZHSKIKH, P.A.

[Anthrax and its control] Sibirskaia iazva i bor'ba s nei. [Sverdlovsk]
Sverdlovskoe obl.gos.isd-vo, 1952. [Microfilm] (MIRA 8:3)
(Anthrax)

DANCHEV, P.S.; PUCHKOV, Ya.M.; VETLUZHSKIKH, V.P.

Effect of short-delay blasting on the quality of the shattering
and breakdown of rock. Trudy Inst.gor.dela UFAN SSSR no.7:27-35
'63. (MIRA 17:3)

DANCHEV, P.S., kand. tekhn. nauk; PUCHKOV, Ya.M.; VETLUZHSIKH, V.P.

Effect of the delay time on the fragmentation quality of the
rock blasted by borehole charges. Vzryv. delo no.55/12:
188-195 '64. (MIRA 17:10)

ZAYAKIN, V.N.; VETLUZHSKIKH, V.P.

Investigating the efficiency of short-delay blasting in the
Vysokogorskiy Mine. Vzryv. delo no.55/12:211-226 '64.
(MIRA 17:10)

1. Gosudarstvennyy gornorudnyy kombinat Kurskoy magnitnoy
anomalii (for Zayakin). 2. Institut gornogo dela Gosmetal-
lurgkomiteta pri Gosplane SSSR (for Vetluzhskikh).

DANCHEV, P.S.; VETLUZHSKIKH, V.P.; PLEKHANOV, G.V.

Using short-delay blasting in breaking ore by the detonations
of borehole charges at the Magnetita" Mine. Vzryv. delo
no.55/12:267-274 '64. (MIRA 17:10)

1. Institut gornogo dela Gosmetallurgkomiteta (for Danchev,
Vetluzhskikh). 2. Shakhta "Magnetitovaya" Vysokogorskogo
mestorozhdeniya (for Plekhanov).

MIRCHINK, M.F.; BALLAKH, I.Ya.; SERGEYEV, L.A.; CHURLIN, V.V.; BUKHARTSEV, V.P.; VETO, V.I.; KHACHATRYAN, R.O.; MUKHIN, S.S., red.; FYLINA, Yu.V., tekhn. red.

[Evaluating the possibility of using seismic prospecting in direct search for oil pools] Otsenka vozmozhnosti primeneniia seismicheskoi razvedki dlia priamykh poiskov neftiannykh zalezhei. By M.F.Mirchink i dr. Moskva, Izd-vo Akad. nauk SSSR, 1961. 129 p. (MIRA 14:11)

1. Akademiya nauk SSSR. Institut geologii i razrabotki goryuchikh iskopayemykh.

(Seismic prospecting)

VETO, F.

Mobilization of fluids in biological objects by means of
temperature gradient. Acta physiol. acad. sci. Hung. 24 no.2:
119-128 '63.

1. Institute of Biophysics, Medical University, Pecs, Hungary.
(WATER) (TEMPERATURE) (BIOPHYSICS)
(OSMOSIS) (VEGETABLES) (FRUIT)

Accession Nr 1 45491-66 EWP(1) IJP(c) BB/GG/JXT(BF)

ACC NR: AP6033343

SOURCE CODE: HU/0012/66/000/002/0051/0055

AUTHOR: Veto, I.--Vete, I.; Gedenyi, I.--Gedeni, I.

ORG: Institute for Electrical Automation (Villamos Automatika Intezet)

TITLE: Sequential storage system

SOURCE: ¹⁶⁰Meres es automatika, no. 2, 1966, 51-55

TOPIC TAGS: information storage and retrieval, computer memory

ABSTRACT: The occurrence of events in a series is picked up by detectors and transmitted by a pulse. The information on occurrences is stored in a memory system composed of storage elements, and-gates, and or-gates. At the call signal, the information is transferred to the appropriate control elements in the order of arrival. For the storage of information consisting of n events, n^2 pieces of storage elements are required to carry the sequence also. Orig. art. has: 4 figures. [Based on authors' Eng. abst.] [JPRS: 35,325]

SUB CODE: 05, 09 / SUBM DATE: 01Sep65 / ORIG REF: 001 / OTH REF: 002

Card 1/1 *esfu*

UDC: 621.395.341.71

0920 1364

S/169/62/000/007/038/149
D228/D507

AUTHORS: Mirchink, M. F., Ballakh, I. Ya., Sergeyev, I. A.,
Churlin, V. V., Bukhartsev, V. P. and Veto, V. I.

TITLE: Direct searches for oil pools by the seismic reflection method

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 23-24,
abstract 7A155 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhnizdat, 1961, 225-229)

TEXT: The authors state the results of research on whether it is possible practically to seek oil and gas pools by direct seismic methods. Theoretical appraisals of the reflecting capacity of the oil-water contact (OWC) showed that the IWC must be a sufficiently clear reflecting boundary. The dependence of the longitudinal wave velocity in water and oil on the methane saturation pressure was investigated (in laboratory conditions), and the velocities in water- or kerosene-impregnated sands under different pressures were

Card 1/2

Direct searches for ...

S/169/62/000/007/038/149
D228/D307

determined. The results obtained confirmed the theoretical calculations. Field observations were made on the Mukhanovskaya structure that has been drilled in detail. The productive parts of the traps were outlined by tracing reflections from the OWC and, less reliably, from the changes in the form of the recording of reflections from geologic boundaries. The statistical processing of seismograms by a special method was applied to distinguish objectively the axes of synphasing that correspond to reflections from the OWC. The possibilities exposed for the use of seismic methods for direct oil and gas searches are undoubtedly of practical interest. [Abstracter's note: Complete translation.] ✓

Card 2/2

VETORBIN, I. A.

DECEASED
c. '60

1962/
7

Physiology

see IIC

VETOKHIN, I.A. [deceased]

Aleksandr Filippovich Samoilov; a brief outline of his life and scientific activities. Vop. fiziol. chel. i zhiv. no.1:5-22 '60.
(MIRA 14:10)

(SAMOILOV, ALEKSANDR FILIPPOVICH, 1867-1930)

SHLYK, A.A.; VETOKHINA, G.A.

Kinetics of the specific activities of a- and b-chlorophylls
in a shade-grown plant after $C^{14}O_2$ assimilation. Dokl. AN
SSSR 150 no.4:924-927 Je '63. (MIRA 16:6)

1. Laboratoriya biofiziki i izotopov AN BSSR. Predstavleno
akademikom A.N. Tereninym.
(Chlorophyll) (Carbon dioxide)

BELYUSTIN, A.V.; Primali uchastiye: KARAMYSHEVA, Zh.V.; VETOKHINA, L.P.

Effect of impurities on the growth of crystals and its dependence
on the pH of the solution. Rost krist. 4:10-14 '64.

(MIRA 17:8)

VITOL'SKAYA, L. D.; NETSKIY, G.I.; KONOVALOVA, S.I.; and BARKOV, L.A.

"Congenital Toxoplasmosis in the City of Omsk"

Voprosy toksoplazmoza, report theses of a conference on toxoplasmosis
Moscow, 3-5 April 1961, publ. by Inst Epidemiology and Microbiology
im. N. F. Gamaleya, Acad. Med. Sci USSR, Moscow, 1961, 69pp.

VETOL'SKIY, E.

Maintenance and repair of the fire tubes of boilers. Mor. flot
25 no.10:30-31 0 '65. (MIRA 18:11)

1. Inzhener-inspektor Registra SSSR Tikhookeanskogo
basseyha.

VEFOSHCHUK, V.I., ordinator.

Tomographic attachment for universal X-ray tables. Vest.rent.1 rad.
no.6:72-77 '53. (MIRA 7:1)

1. Iz kliniki propedevticheskoy terspii (zavednyushchiy - professor
A.A.Kovalevskiy) Stanislavskogo meditsinskogo instituta (direktor
- dotsent Yu.G.Antonov).

(X rays--Apparatus and supplies) (Radiography)

VESTOSHCUR, V. G.

"Data on the Theory of Sectional Roentgenological Investigation and Topography of the Skull." *Sov Med Sci, L'vov Medical Inst, L'vov, 1954.* (RZhBiol, No 4, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Investigations
Defended at USSR Higher Educational Institutions (14)

VETOSHCCHUK, V.I.

MEL'MAN, Ye.P.; VETOSHCCHUK, V.I.

Use of tomography in investigating vascular topography. Arkh.
anat. gist. i embr. 32 no.2:51-54 Ap-Je '55.

(MIRA 9:1)

1. Iz kafedry normal'noy anatomii (zav.-doktor med. nauk Ye.P.
Mel'man) Stanislavskogo meditsinskogo instituta (dir. kand. med.
nauk S.S. Lavrik)

(ANGIOGRAPHY,

vase, tomography)

MEL'MAN, Ye.P.; VETOSHOCHUK, V.I.

Tomography of joints of the extremities. Vest.rent. 1 rad. 31 no.1:
86-88 Ja-F '56. (MLRA 9:7)

1. Iz kafedry normal'noy anatomii (sav.-doktor meditsinskikh nauk
Ye.P.Mel'man) Stanislavskogo meditsinskogo instituta

(JOINTS, radiography

tomography of extremities)

(EXTREMITIES, radiography

tomography of joints)

(ROENTGENOGRAPHY

tomography of joints of extremities)

VETOSHCHUK, V.I.

Tomography in tilted positions [with summary in English]. Vest.rent.
1 rad. 32 no.1:46-50 Ja-F '57. (MLRA 10:6)

1. Iz kafedry propedevticheskoy terapii (zav. - dotsent N.P.
Kravets) Stanislavskogo meditsinskogo instituta (dir. - dotsent
G.A.Babenko)

(ROENTGENOGRAPHY

- tomography in tilted position)

VETOSHCHUK, V.I., dotsent; PROKOPYSHIN, M.V.

Methodology for one-stage angiography of the lower extremities.
Vest. rent. i rad. 40 no.4:60-61 J1-Ag '65. (MIRA 18:9)

1. Kafedra rentgenologii i radiologii (zav.- dotsent V.I. Vetoshchuk) i kafedra gospital'noy khirurgii (zav.- prof. S.A. Verkh ratskiy) Ivano-Frankovskogo meditsinskogo instituta.

ROTHENBERG, D.L., prof. (Stanislav, ul. Vatutina, d.7, kv.6); VETOSHCHUK, V.I.,
kand.med.nauk

Preoperative preparation of the surgeon's hands. Nov.khir.arkh.
no.5:118 S-O '59. (MIRA 13:3)

1. Kafedra obshchey khirurgii i kafedra rentgeno-radiologii Stanis-
lavskogo meditsinskogo instituta.
(SURGERY, ASEPTIC AND ANTISEPTIC)

VETOSHCHUK, V.Y.

EXCERPTA MEDICA Sec.14 Vol.11/10 Radiology Oct 57

1738. VETOSHCHUK V.Y. *Tomography in tilted positions (Russian text) VESTN. RENTGENOL. RADIOL. 1957, 32/1 (46-50) illus. 9

During tomography, an oblique, tilted position of the whole patient's body (half-way between vertical and horizontal) may prove most convenient. This refers both to examinations in normal conditions and with the use of artificial contrast media (air, oxygen, sergosine, iodolipol). At the same time, with the patient in a tilted position, it is desirable that the main orientation of the plane should remain frontal or sagittal. The author has developed a device permitting tomograms taken in an inclined position to be placed on an ordinary tomograph. The device consists of 2 main parts: a plate with a bushing and a supporting leg with a ball bearing. The plate is attached to the slide of the X-ray tube. The free and the supporting leg is secured in the bushing by means of a screw. The leg, and through it the X-ray tube rest their bearings on the top of the tomograph. Thus, the tomograph's table-top serves as a guide for the movement of the X-ray tube, by which the X-ray tube is kept moving in a plane, parallel to the plane in which the holder and the plate move. In studies with the use of an artificial contrast medium it is possible by altering the size and degree of inclination of the angle of the tomograph tables as well as the position of the patient to get an optimal distribution of the contrast medium (for instance, gas in the pleural, abdominal and other cavities, in the retroperitoneal space, iodolipol in the bronchi, sergosine in the urethra, etc.), thereby creating more favourable conditions for both normal roentgenography and tomography of various organs.

VETOSHKIN, F.I.

Construction of a residential home using industrial methods.

Politekh.obuch. no.11:42-55 N '57.

(MIRA 10:10)

(Apartment houses)

VETOSHEV, V.S.

Automatic control of the temperature of die-casting molds. Mashino-
stroitel' no. 1:25 Ja '66 (MIRA 19:1)

VEROSHNIK, P.I., insh.

School maintenance work is done by students, Politekh. obuch. no. 7:
63-65 JI '58. (MIRA 11:8)

(Schoolhouses---Maintenance and repair) (Activity programs in education)

VETOSHKIN, K. I.

VETOSHKIN, K. I. -- "ORGANIZATION OF A CONSTRUCTION PLATFORM DURING THE CONSTRUCTION OF INDUSTRIAL AND CIVIL BUILDINGS." 204 25 MAR 52, MOSCOW ORDER OF LABOR RED BANNER ENGINEERING CONSTRUCTING INST IMENI V. V. KUYBYSHEV (DISSERTATION FOR THE DEGREE OF DOCTOR IN TECHNICAL SCIENCE)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

PA 18/49T34 USSR/Medicine - Surgery Medicine - Penicillin Nov 48 Use of Penicillin in the Polyclinic in Treating Surgical Diseases, N. V. Vetoshkin, Surg Dept, Polyclinic No 1, 3i pp	"Chirurgiya" No 11 Paper read at Polyclinic Conference 18 Oct 47. Describes observations since 1946. Concludes that local application of penicillin for carbuncles, furuncles, paronychia carpal phlegmon has good effect and considerably shortens period of treatment. The earlier treatment is begun, the more effective it is. FDB 18/49T34	USSR/Medicine - Surgery (Contd) Nov 48 Application of penicillin also gives good results in cases of acute mastitis, and shortens treatment period.	FDB 18/49T34
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VETOSHKIN, P.S.

Automatic unit used in preventive maintenance of bearing. Biul.tekh.-
ekon.inform.no.2:45-46 '59. (MIRA 12:3)
(Bearings (Machinery)--Maintenance and repair)

VETOSHKIN, S. I.

Summ.
AID P - 2457

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 4/18

Authors : Vetoshkin, S. I., Prof., Corr. Mem., Acad. of Med. Sci.,
USSR, Gubernskiy, Yu. D., Sanitary Inspector

Title : Hygienic evaluation of prefabricated dwellings in
regions of virgin and waste land.

Periodical : Gig. i san., 6, 15-22, Je 1955

Abstract : Deals with house building on state farms ("sovkhoz")
organized in the Altay Territory in 1954. The authors
consider the prefabricated framework and the boarding
up of these dwellings unsatisfactory in the cold climate
of Altay steppes. A study of room temperatures and of
the effect of temperature conditions on the organism is
presented. On its basis recommendations are made for
the improvement of house structures, as well as for the
better planning of apartments. Diagr.

Institution: Institute of General and Municipal Hygiene, Acad. of Med.
Sci., USSR, and Altay Territorial Medical and Epidemi-
ological Station.

Submitted : March 26, 1955

MARZHEYEV, A.N., prof.. Primali uchastiye: AGLITSKIY, S.S., prof.;
VETOSHKIN, S.I., prof.; ZHABOLINSKIY, V.M., prof.;
~~SMELYANSKIY, Z.B., prof.~~; MARREY, A.N., kand.med.nauk;
SILIVANIK, K.Ye.. GORBOV, V.A., red.; SENCHILO, K.K.,
tekhn.red.; ZAKHAROVA, A.I., tekhn.red.

[Communal hygiene] Kommunal'naya gigiena. Pri uchastii
S.S.Aglitskogo i dr. Izd.2., dop. i ispr. Moskva, Gos.
izd-vo med.lit-ry, 1958. 554 p. (MIRA 13:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for
Marzeyev).

(PUBLIC HEALTH)

VETOSHKIN, S.S.; ROZOV, B.S.; STEPANOV, B.M.

Telemetering of single time intervals by means of spiral
scanning. Avtom. i telem.; sbor. st. no.2:60-74 '62.

(MIRA 15:9)

(Telemetering) (Delay lines)

S/803/62/000/002/005/006

AUTHORS: Vetoshkin, S.S., Rozov, B.S.

TITLE: Device for the measurement of small time intervals.

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Avtomatika i telemekhanika. no. 2. 1962, 49-59.

TEXT: The paper describes a device for the measurement of small time intervals in which the pulses that correspond to the beginning and end of the time interval measured pass into the input shaper blocks whence they enter the primary translation circuit, where the interval to be measured is to be translated into a pulse amplitude. The pulse thus obtained is expanded and then enters into the comparison circuit, the output signal of which is delayed relative to the direct passage of the sawtooth by a time that is proportional to the measured pulse amplitude, that is, proportional to the time interval measured. The circuit employed in the translation of the measured time interval into a pulse amplitude is accomplished by customary means. It is described and shown in a schematic graph, together with a full-page schematic wiring diagram. The operation of the scheme is depicted schematically, and it is shown that the shortest time interval that can be measured by these means is determined by the pulse-amplitude-measuring circuit and by the magnitude of the

Card 1/2

Device for the measurement of small time intervals. S/803/62/000/002/005/006

translation error. If the absolute error of measurement does not exceed 0.5 v, then the absolute error in the measurement of the time interval does not exceed $1.5 \cdot 10^{-9}$ sec (in the absence of other errors). A detailed analysis is provided of possible sources of errors: (1) Variability of the discharge current of the condenser; (2) instability of the initial current with time; (3) instability of the capacitance; (4) finite noninstantaneous closure of the key; and (5) condenser-leakage error. The measurement of the pulse amplitude obtained as a result of the primary translation is performed by means of the comparison circuit, a full-page wiring diagram of which is shown. The analysis of this circuit introduces consideration of an additional error source, namely, that due to the memory circuit. There are 9 figures and 3 references (2 Russian-language Soviet and the English-language paper by Lepri-Mazzetti-Stoppini, Rev. Sci. Instrum., v. 26, no.10, 1955, 936).

Card 2/2

[Handwritten "77" in top left corner]

[Handwritten "9" in top right corner]

METHODS FOR THE DETERMINATION OF SMALL QUANTITIES OF ANTIMONY IN VARIOUS METAL ALLOYS. V. F. YETUSHKIN (*Zavodskaya Lab. (Works' Laboratory)*, 1932. (3), 31-34; C. Abs., 1935, 80, 6628).—[In Russian.] A simplified combined method for the determination of Sb in Cu, Ni, Pt, Zn, and their alloys according to Blumenthal, Evans, and Clark is described.—S. G.

ASB-SLA DETALLURGICAL LITERATURE CLASSIFICATION

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Methods for the determination of small quantities of antimony in variegated metal alloys. V. E. Yatsushkin, Zaredshaya Lab. 1932, No. 3, 31-4; *Chem. Zvesti.* 1934, II, 3012. --A simplified contained method for the detn. of Sb in Cu, Ni, Pb, Zn and their alloys according to Blumen-thal-Evans-Clark is described. W. A. Moore

458.55.4 METALLURGICAL LITERATURE CLASSIFICATION

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PROCESSES AND PROPERTIES INDEX																																																					
COMMON ELEMENTS COMMON VARIABLE METALS OPEN MATERIALS INDEX A 10-202. Determination of Small Quantities of Antimony in Nonferrous Metals and Alloys Containing Less Than 0.5% Tin. B. A. Filippov and V. F. Verzhukhin. Factory Laboratory (U.S.S.R.), No. 13, April 1947, p. 468. (In Russian.) Method is based on coprecipitation of antimony with metastannic acid followed by titration.																																																					
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Determination of Small Quantities of Antimony in Nonferrous Metals and Alloys Containing Less than 0.5% Tl. (In Russian) S. A. Filippov and V. F. Votshkin. <i>Factory Laboratory</i> (U.S.S.R.), v. 13, Apr. 1947, p. 488. Method described is based on coprecipitation of Sb with metastannic acid followed by titration.																																																			
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VETOSHKIN, V. P.

10-202. Determination of Small Quantities of Antimony in Nonferrous Metals and Alloys
Containing Less Than 0.5% tin. S.A. Filonov and V.P. Vetoshkin. Factory Laboratory,
(U.S.S.R.) v. 13, April 1947, p.485. (In Russian.)

Method is based on coprecipitation of antimony with metastannic acid followed by titration.

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PROCEDURE AND REPERIMENT INDEX

7

Determination of small quantities of antimony in non-ferrous metals and in alloys containing less than 0.5% tin. S. A. Filippov and V. F. Veroshkin. *Zhurnal Khim. 19, 145 (1947)*. -- Mix 5 g. of metal or alloy with 0.01 g. Sn, treat with 40 ml. concd. HNO_3 , heat to eliminate oxides of N, dil. with hot water to 100 ml., heat to boiling, and filter. Wash at first with hot dil. HNO_3 and then with hot water. To the ppt., add 35-40 ml. concd. HNO_3 and 20-25 ml. strong H_2SO_4 , heat on a sand bath to fumes of SO_3 , cool, wash the sides of the flask with water, and heat again to fumes; repeat this operation 3 times. Cool, add to the soln. 3 ml. H_3PO_4 , 60 ml. water, a little $\text{Na}_2\text{S}_2\text{O}_5$, and 5 ml. of 20% KI soln. Dil. to 100 ml. with 9 N H_2SO_4 in a cylinder. If an outside test of several drops of soln. with starch gives a blue coloration, add more $\text{Na}_2\text{S}_2\text{O}_5$. The standard soln. is prepd. from 5 ml. of 20% KI soln., 20 ml. H_2SO_4 (1:3), 3 ml. phosphoric acid, a little $\text{Na}_2\text{S}_2\text{O}_5$, and enough Sb soln. (0.2764g. $\text{K}_2\text{S}_2\text{O}_8$ tartrate in a l. of 10% H_2SO_4) to give 100 ml. Measure the color of the liber- ated I and starch.

METALLURGICAL LITERATURE CLASSIFICATION

YEFREMOV, G.V.; VETOSHKINA, A.F.

On the separation of thallium by means of radial paper chromatography. Uch. zap. LGU no-297:53-57 '60. (MIRA 13:11)
(Thallium)

VETR, G. I.; YABLONSKIY, V. S.

Sooruzheniye i eksploatatsiya nefteprovodov [The Construction and Operation
of Oil Pipelines/ , Moscow-Leningrad, 1948.

No. 444, 16 Aug 55

YARICHENKIV, V. A., USSR, U.S.

Petroleum Engineering

"The Construction and Use of Petroleum Pipelines", Gostoptekhnizdat, 1948

Summary No. 60, 26 May 52; BR-52056899

VETR, G. S.

Petroleum Engineering

"The Construction and Use of Petroleum Pipelines",
Gostoptekhnizdat, 1948

Summary No. 60, 26 May 52; BR-52056899

VETRA, K.; KAKHAN, L. [Kahan, L., translator]; ZAK, A. [Zaks, A.], red.
ENCERE, L., tekhn. red.

[The Vidzeme Upland] Vidzemskaia vozvyshehnost'. Riga, Latv-
vinskoe gos. izd-vo, 1957. 149 p. (MIRA 15:1)
(Vidzeme Upland--Guidebooks)

VETRA, K.; KAKHON, L. [translator]

[On the banks of the Abava] Na beregakh Abavy. Riga, Latvinskoe gos.izd-vo, 1959. 136 p. (MIRA 15:5)
(Abava Valley—Description and travel)

VETRA, K., VELDE, A.

Sigulda. Rīga, Latvijas Valsts izdevniecība, 1962. 123 p.
(MIRA 16:5)

(Sigulda—Guidebooks)

VĒTRA, K.; VELDE, A.; KAKHAN, L. [translator]; SILMANIS, E.,
red.; CHAKSH, Ye. [Čakšs, E.], tekhn. red.

[Sigulada; tourist's guidebook through Sigulada and its
environs] Sigulad; turistiskii putevoditel' po Sigulde i
ee okrestnostiam. Riga, Latviiskoe gos. izd-vo, 1963. 121 p.
(MIRA 17:1)

(Sigulada--Guidebooks)

VETRA, Karlis Jana dels; STENDERS, E., red.; FREIMANIS, V., tekhn. red.

[Vidzeme upland]Vidzemes augstiene. Riga, Latvijas Valsts
izdevnieciba, 1957. 130 p. (MIRA 16:1)
(Vidzeme---Guidebooks)

VETREBNYY, Prokofiy Ivanovich, kandidat tekhnicheskikh nauk; SERGEEV, I.V.,
redaktor; AGRANOVSKAYA, N.D., redaktor izdatel'stva; KOLESHIKOVA,
A.P., tekhnicheskiiy redaktor

[Mechanizing the work of lumberyards] Mekhanizatsiya rabot na
skladakh pilomaterialov. Moskva, Goslesbumizdat, 1956. 126 p.
(Lumberyards) (MIRA 9:8)

RAYKEL', M.A., inzh.; VETRENKO, A.A., inzh.

Spray gun invented by innovator P.V. Chistiakov. Biul.tekh.inform.

5 no.1:30 Ja '59.

(MIRA 12:4)

(Spray painting--Equipment and supplies)

BABADZHAN, A.A., kand. tekhn.nauk; BOGOMOLOV, V.I., inzh., retsenzent;
BULATOV, V.D., inzh., retsenzent; VETRENKO, Ye.A., kand.
tekhn. nauk, red.; VETRENKO, Ye.A., kand. tekhn. nauk, red.;
LUCHKO, Yu.V., red.izd-va; KOVALENKO, N.I., tekhn. red.

[Innovators' practice in the copper smelting industry of the
Urals] Opyt novatorov medeplavil'noi promyshlennosti Urala.
Pod red. E.A.Vetrenko. Sverdlovsk, Metallurgizdat, 1953.
133 p. (MIRA 16:8)

(Ural Mountain region--Copper industry)

BABADZHAN, A.A., kand. tekhn.nauk; BOGOMOLOV, V.I., inzh., retsenzent;
BULATOV, V.D., inzh., retsenzent; VETRENKO, Ye.A., kand.
tekhn. nauk, red.; VETRENKO, Ye.A., kand. tekhn. nauk, red.;
LUCHKO, Yu.V., red.izd-va; KOVALENKO, N.I., tekhn. red.

[Innovators' practice in the copper smelting industry of the
Urals] Opyt novatorov medeplavil'noi promyshlennosti Urala.
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133 p. (MIRA 16:8)

(Ural Mountain region--Copper industry)

VETRENKO, I.; KORSAKOV, Ye.

Essential aspects of wage regulation of seaport workers.

Sots. trud. 4 no. 4:48-53 Ap '59.

(MIRA 12:6)

(Longshoremen) (Wages)

VETRENKO, LEONID DANILOVICH

N/5
755.545
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KOMPLEKSNIYE NORMY VYRABOTKI NA POGRUZOCHNO-RAZGRUZOCHNIYE RABOTY V MORSKIYH
PORTAKH (COMPLEX NORMS IN PRODUCTION OF LOADING AND UNLOADING OPERATIONS IN MARITIME
PORTS) MOSKVA, MORSKOY TRANSPORT, 1957.

153 P. ILLUS., DIAGRS., TABLES (BIBLIOTEKA OBMENA OPYTM NA MORSKOM TRANSPORTE)
"LITERATURA": P. 152.

DRABKIN, Yakov Markovich, kapitan dal'nego plavaniya; Prinimali
uchastiye: VETRENKO, L.D., kand. tekhn.nauk; DRABKIN, Ya.M.,
NEMCHIKOV, V.I., kand.tekhn.nauk; MESHEROV, V.P., kand.
yurid. nauk; KANTOROVICH, Ya.B., kand.tekhn.nauk; MATYUSHINA,
S.P., red.; TIKHONOVA, Ye.A., tekhn. red.

[Freight transportation by sea]Perevozka грузов morem. Izd.3.,
ispr. i dop. Moskva, Izd-vo "Morskoi transport," 1962. 384 p.
(MIRA 15:8)

(Shipping)

VETRENKO, Leonid Danilovich, kand.tekhn.nauk; MARCHUKOVA, M.G., red.;
TIKHONOVA, Ye.A., tekhn.red.

[Principles of the technology of cargo loading and unloading
in sea harbors] Osnovy tekhnologii peregruzki gruzov v morskikh
portakh. Moskva, Izd-vo "Morskoi transport," 1961. 400 p.

(MIRA 15:5)

(Harbors—Equipment and supplies) (Cargo handling)

VETRENKO, T.V.

USSR/Pharmacology, Toxicology. Chemotherapeutical Preparations

V-7

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23430

Author : Vetrenko T.V.

Inst : Not Given

Title : About the Reactions Which Occur in the Administration of Antibiotics Under the Cerebral Membranes.

Orig Pub : Vrachebn, dyelo, 1956, No 7, 713-716

Abstract : Penicillin (I) in a 10-50 thousand unit dose was administered to dogs in various parts of the pia mater. A change in respiration, a weakening of the force of cardiac contractions, and a decrease in the vascular tone were noted. During the initial 30-40 minutes the animal was stimulated; afterwards a depression of the central nervous system set in. There were convulsions and death in 70% of the cases. In chronic cases, where the penicillin doses were smaller, gradually accumulating respiration and cardio-vascular phenomena were also noted; when the doses were increased to 40,000 units, convulsions of

Card : 1/2

00513R00185962001

VETRENKO, T.V.

Decreasing the toxic effects of penicillin on the cardiac activity
by means of sodium lactate. Genet. i perel. krovi 1:69-70 '65.

(MIRA 18:10)

1. I'vovskiy meditsinskiy institut.

EXCERPTA MEDICA Sec 8 Vol 12/10 Neurology Oct 59

4869. REFLEXES FROM CEREBRAL MEMBRANES IN RESPONSE TO MECHANICAL STIMULI (Russian text) - Vetrenko T. V. Dept of Path. Physiol., Med. Inst., Lvov - VRACH, DELO 1957, 1 (11-14)

A 15 to 25% drop of arterial pressure and slowing of the heart by 10 to 12 beats per min. were recorded in 45 dogs upon gentle but widespread stimulation of the cerebral membrane (rubbing with gauze pellet). The arterial pressure dropped less upon pricking or incision of the membrane. In both cases the amplitude and rate of respiration were increased (by 3 to 4 times). In case of sectioning the membrane, the effect was more pronounced; breathing became erratic and irregular. Disturbance of heart rhythm was observed, the size and form of separate waves changed, and blood flow was accelerated. All these changes were transitory. With repeated application of stimuli response reactions were reduced. The most distinct results were obtained on stimulation of the occipital and parietal areas. The author thinks that the depressor reaction is a specific reflex of the membrane; in consequence of it, the amount of blood flowing to the brain is reduced.

Pronin - Moscow (S)

VETRENKO, T.V.

Changes in neural structures of the dura mater after convulsive seizures. Zhur. nerv. i psikh. 61 no. 1:73-77 '61. (MIRA 14:4)

1. Kafedra patologicheskoy fiziologii (zav.- prof. I.I. Fedorov)
L'vovskogo meditsinskogo instituta.
(CONVULSIONS) (DURA MATER)

VETRENKO, T. V. Cand Med Sci. -- (diss) "Reflexes From Cerebral
~~in response to~~ ^(in an) Meninges ~~of~~ Some Stimuli." L'vov, 1957. 15 pp 22 cm. (L'vov
State Medical Inst), 250 copies (KL, 19-57, 88)

- 19 -

VATOLIN, N.A.; VETRENIKO, Ye.A.

Using radioactive isotopes in metallurgical research. Atom. energ.
4 no.6:603-604 Je '58. (MIRA 11:8)
(Radioisotopes—Industrial applications)

UETREKO, Y. A.

Abstracts and Notes. Unpublished. Institut metallurgii	
Trudy, Vys. b (Communications of the Institute of Metallurgy, Ural Branch, Academy of Sciences, USSR) No. 1. Sverdlovsk, 1958. 157 p. Russian only. Issued. 1,000 copies printed.	
Material Base: E.A. Vokila (Sup. M.), Candidate of Technical Sciences; A.S. Kibikidze, Professor, Doctor; V.I. Miller, Professor; E.A. Pashkov, Candidate of Technical Sciences; and E.A. Litvinov, Candidate of Technical Sciences; M.I. K.M. Kuznetsov.	
Abstracts: This book is intended for ferrous and nonferrous metallurgists.	
Contents: The book presents results of investigations of theoretical problems in metallurgy and chemistry and gives information on the efficiency of new methods in ferrous and nonferrous metallurgy and on the development of new production processes in the metallurgical and chemical industries. The articles were written by junior members and experienced specialists of the scientific staff of the Institute of Metallurgy, Chemistry, and Electrochemistry, Ural Branch, Academy of Sciences, USSR.	
Authors: E.A. Vokila, E.A. Kibikidze, and E.A. Litvinov. Editorial Assistance and Photo Composition of Manuscript: E.A. Litvinov.	
Editor: G.A. and V.A. Vokila. On the Connection Between the Kinetics of the Vaporization of Solids and the Pressure of Saturated Vapor	12
Author: V.I. and M.P. Rizer (Dobson). Behavior of Oxidation During the Heating of Solids in Concentrated	13
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Author: V.I. and V.A. Pashkov, and L.K. Gerasimov. Some Perspectives for the Electrolytic Production of Lead from Aqueous Chloride Solutions and Selection of Insoluble Anodes for Electrolysis	18
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Author: V.I. and V.A. Pashkov, A.A. Hinchuk, and A.A. Zhukovskiy. On the Problem of Purification of Zinc from [Copper] into the Gas Phase During Air Blast	22
Author: E.A. and V.A. Kuznetsov, and V.I. Kuznetsov. Comparative Data on the Carrying of Liquid into the Gas-phase State in an Experimental Chamber	23
Author: V.I. Kuznetsov, and V.I. Kuznetsov. On the Behavior of Oxides of Iron During the Metallurgical Treatment of Borealis Ores	24
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Author: V.I. Kuznetsov, and V.I. Kuznetsov. Phosphorus and Titanium in Foundry Pig Iron	27
Author: V.I. Kuznetsov. On the Deposition of Perovskite Magnesium	28
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Author: V.I. Kuznetsov, and V.I. Kuznetsov. Production of Isoprene by Alkylation of Isobutene with Olefins	30
Author: V.I. Kuznetsov, and V.I. Kuznetsov. Thermodynamic Properties of Metal Alloys of Nickel	31

SOV/137-59-5-9641

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 24 (USSR)

AUTHOR: Vetrenko, Ye.A.

TITLE: The Effect of Diffusion Rate on the Interaction of Gases With Sublimating and Dissociating Substances

PERIODICAL: Tr. In-ta metallurgii, Ural'skiy fil. AS USSR, 1958, Nr 2, pp 117 - 123

ABSTRACT: The author admits that the sublimation and dissociation rates are limited by the intensity of the removal of molecules drawing-off the surface of the adjacent layer into the volume of the gaseous phase. The comparison of the diffusion rates of various gases in the mixture cleared up a series of experimental facts. Higher rate of sulfide sublimation in H_2 compared to N_2 is caused by a higher diffusion rate of the contained gasiform sulfide. If one of the components of the gaseous phase A interacts with the sublimating compound B and gasiform products are being developed, then the location and the rate of the developing reaction change, depending on the correlation of diffusion rates of A and B. If

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SOV/137-59-5-9641

The Effect of Diffusion Rate on the Interaction of Gases With Sublimating and Dissociating Substances

the diffusion rate of A is higher than that of the vapors of B, the reaction proceeds on the surface and sublimation does not occur. For example, in experiments described previously, addition of 3% O_2 to N_2 over liquid Zn caused higher evaporation rate, whereas full replacement of N_2 by oxygen was accompanied by oxidation of the Zn surface and interrupted dissociation. If B is diffusing more rapidly than A, the sublimation rate is proportional to the rate of A supply. Interaction of dissociating substances takes place in an analogous manner. For instance, if the oxide and the sulfide are dissociating in a chamber filled with N_2 , and S combination with O occurs at a high rate, during their encounter then the sulfide is oxidized if the diffusion rate of O is higher than that of S. In the case of reverse correlation of the rates, the oxide is sulfidized off the surface.

S.P.

Card 2/2

BABADZHAN, A.A.; ZHUKOVSKIY, V.M.; ZAPONOVA, K.F.; VETRENKO, Ye.A.

Kinetics of volatilizing zinc, lead, and certain rare elements during
the treatment of metallurgical dusts by the pyroselection method. TSvet.
met. 36 no.11:20-22 N '63. (MIRA 17:1)

BABADZHAN, A.A.; ZHUKOVSKIY, V.M.; VETRENKO, Ye.A.

Thermodynamic analysis of the behavior of rare elements in
the pyrometallurgical process. TSvet. met. 37 no.6:55-58
Ja '64. (MIRA 17:9)

ASTAF'YEVA, M.N.; VETRENKO, Ye.A.; MIKULINSKIY, A.S.; FRISHBERG, I.V.

Rosman-Yarwood's formula for calculating the coefficient
of condensation. Zhur. fiz. khim. 38 no.2:523-525 P 6.
(MIRA 17:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR.

BALAKIREV, V.F.; VETRENKO, Y.A.; TISHCHENKO, A.A.; BABADZHAN, A.A.

Zinc passage from matte to the gaseous phase under the effect
of converter blow. Trudy Inst. met. UFAN SSSR no.4:81-85 '58.
(MIRA 12:10)

(Zinc--Metallurgy)

AUTHORS: Batolin, N.A., Vetrenko, Ye.A.

SOV/ 89-4-6-25/30

TITLE: The Use of Radioactive Isotopes in Metallurgical Investigations
(Primeneniye radioaktivnykh izotopov v metallurgicheskikh
issledovaniyakh)

PERIODICAL: Atomnaya energiya, 1958, Vol. 4, Nr 6, pp. 603-604 (USSR)

ABSTRACT: The following communications made by the Institute of Metallurgy
of the Ural Branch, AS USSR, are dealt with:

- 1.) Desulfurization of the transformer beam with S^{35} . Per ton of
molten metal 150 mC is added. Every 5 minutes a sample is in-
vestigated as to its radioactivity, and desulfurization is
measured. It was found that desulfurization can be improved
by mixing the metal with the slags when slagging secondary
slags and alloying with ferrosilicon.
- 2.) Determination of isotope exchange between slags and metal by
means of S^{35} . It was found that after the metal had been in
the ladle for 20 minutes, hardly any S^{35} passes from the slags
into the metal.
- 3.) Also the mechanism of the reciprocal behavior of a number of
sulfides and sulfates and sulfur anhydrides was investigated

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The Use of Radioactive Isotopes in Metallurgical
Investigations

SOV/89-4-6-25/30

- with S³⁵.
- 4.) The desulfurization of cast iron was investigated by means of Fe⁵⁹. It was found that iron does not enter the slags together with sulfur as ferrous sulfide, but by some other way.
 - 5.) By means of Zn⁶⁵ and Se⁷⁵ it was possible considerably to reduce the number of experiments hitherto carried out when using complex minerals for the production of nonferrous metals.
 - 6.) Co⁶⁰ was used for the purpose of determining the distribution of metal between barren rock and slags in nickel production.
- There are 3 Soviet references.

1. Metals--Processing 2. Metallurgy--USSR 3. Isotopes
(Radioactive)--Applications

Card 2/2

137-1958-2-2340

VETRENKO, Ye. A.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 19 (USSR)

AUTHORS: Vetrenko, Ye. A., Sidorenko, R. A.

TITLE: A Study of the Kinetics of Evaporation and the Temperature Ranges of Condensation of Zinc in Various Gaseous Atmospheres (Izucheniye kinetiki ispareniya i temperaturnykh zon kondensatsii tsinka v razlichnykh gasovykh atmosferakh)

PERIODICAL: V sb.: Vopr. teorii i praktiki liteyn. proiz-va. Moscow - Sverdlovsk, Mashgiz, 1956, pp 199-205

ABSTRACT: Experiments in conjunction with a study of the kinetics of the evaporation of Zn from brass, wherein Zn^{65} was used as a radio-active tracer, revealed that: 1) a mildly acid and mildly reducing atmosphere speeds up the evaporation of Zn; 2) the presence in the atmosphere of S vapors before the Zn starts to evaporate can stop its evaporation completely; 3) maximum condensation of the Zn occurs at 620-670°; 4) the composition of the gaseous atmosphere and the rate of evaporation do not influence noticeably the temperature ranges of the condensation of Zn.

V.M.

Card 1/1

1. Zinc--Condensation 2. Gases--Applications 3. Condensation
--Temperature effects